

**EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
REGARDING THE ADOPTION BY REFERENCE OF THE
2005 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC)
WITH PROPOSED AMENDMENTS INTO THE 2007 CALIFORNIA
ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3**

The Department of Housing and Community Development (HCD) proposes to adopt the 2005 edition of the National Electrical Code (NEC) for codification and effectiveness into the 2007 edition of the California Electrical Code (CEC) as presented on the following pages, including any necessary amendments.

Legend for Express Terms:

- 1. California amendment (CA) brought forward without modification:** *All language will appear in italics.*
 - 2. California amendment (CA) brought forward with modification:** *All language will appear in italics, modified language is shown underlined.*
 - 3. New NEC language with new California amendment (CA):** NEC language shown in normal Arial 12 pt. *California amendments to NEC text is shown underlined and in italics.*
 - 4. New California amendment (CA):** *California language will appear underlined and in italics.*
 - 5. Repealed text:** Shown as ~~Strikeout~~.
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ARTICLE 89 - Administration

HCD is proposing the adoption of only those Sections within Article 89 indicated below and on the attached matrix table. Article 89 is an existing California amendment, which provides the purpose, scope, administrative authority, and application.

89.1 Title. *The provisions contained in this Code shall be known as the “California Electrical Code,” a portion of the “California Building Standards Code,” as defined in the “California Building Standards Law” commencing with Section 18901 of the Health and Safety Code, and may be cited and referred to as the “California Electrical Code.” The unqualified words “This Code” as used herein, refer only to the California Electrical Code, and do not include any other portions of the California Building Standards Code. These provisions may also be cited as “C.E.C.” or “Part 3” within other parts of the California Building Standards Code (Title 24).*

89.2 Purpose. *The purpose of this Code is to provide minimum standards to safeguard life or limb, health, property and public welfare, and to protect against hazards that may arise from the use of electricity by regulating and controlling the design, construction, installation, quality of materials, location and operation of electrical equipment, wiring and systems.*

89.3 Scope. *The provisions of this Code and the building standards contained herein, including those standards adopted by reference without amendments, where specifically adopted by the listed agencies under their cited authority and enforced by the enforcing agency specified in Section 89.7, shall apply to the construction, alteration, moving, demolition, repair and use of all electrical equipment, wiring and systems in or on any building or structure or outdoors on any premise or property; except such electrical equipment, wiring and systems which are expressly exempted by Section 89.4.*

Exception: [For HCD 1] Additions, Alterations, Repairs and Moved Buildings. *Notwithstanding other provisions of law, alterations, repairs, replacements, and moved buildings are governed by Health and Safety Code, Division 13, Part 1.5, Sections 17912, 17920.3, 17922 (c), 17922.3, 17958.8 and 17958.9, known as the State Housing Law, and are implemented by the California Code of Regulations, Title 25, Chapter 1. Health and Safety Code Sections 17958.8 and 17958.9 are repeated here for clarity and reads read as follows:*

Section. 17958.8. *“Local ordinances or regulations governing alterations and repair of existing buildings shall permit the replacement, retention, and extension of original materials and the use of original methods of construction for any building or accessory structure subject to this part, including a hotel, lodging house, motel, apartment house, or dwelling, or portions thereof, as long as the portion of the building and structure subject to the replacement, retention, or extension of original materials and the use of original methods of construction complies with the building code provisions governing that portion of the building or accessory structure at the time of construction, and the other rules and regulations of the department or alternative local standards governing*

that portion at the time of its construction and adopted pursuant to Section 13143.2 and the building or accessory structure does not become or continue to be a substandard building.”

Section. 17958.9. *“Local ordinances or regulations governing the moving of apartment houses and dwellings shall, after July 1, 1978, permit the retention of existing materials and methods of construction so long as the apartment house or dwelling complies with the building standards for foundation applicable to new construction, and does not become or continue to be a substandard building.”*

89.4 Exempted from this Code. *This Code does not cover:*

(A) *Installations in ships, watercraft other than floating dwelling units, railway rolling stock, aircraft, automotive vehicles, commercial ~~coaches~~ modulars, manufactured homes, mobilehomes, multi-unit manufactured housing, and recreational vehicles.*

(B) *Installations underground in mines, mine shafts and tunnels.*

(C) *Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes.*

(D) *Installation of communication equipment under the exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations.*

(E) *Installations under the exclusive control of electrical utilities for the purpose of communication, or metering; or for the generation, control, transformation, transmission, and distribution of electrical energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, etc., or outdoors by established rights on private property.*

Exception to (D) and (E): *In places of employment, the following shall apply: installations of conductors, equipment and associated enclosures subject to the jurisdiction of the California Public Utilities Commission, that are owned, operated and maintained by an electric, communications or electric railway utility, but not including conduit, vaults, and other like enclosures containing conductors and equipment of such a utility when located indoors or on premises not used exclusively for utility purposes, but do not apply to the utility’s conductors and equipment therein.*

(F) *Installations on highways or bridges.*

89.5 Non-Building Standards, Orders and Regulations.

(A) Requirements contained in the National Electrical Code (NEC), or in any other referenced code, document, or standard, which are not building standards as defined in Section 18909 of the Health and Safety Code, shall not be construed as a part of the provisions of this Code.

(B) For the applicability of regulations, safety and other orders, and standards which relate to the administration, enforcement, maintenance, operation and similar non-building standards, see other titles of the California Code of Regulations.

89.6 Order of Precedence and Use.

(A) In the event of any difference between the provisions of this Code and the National Electrical Code (NEC), or between this Code and the provisions of any other referenced code, document or standard, the text of this Code shall govern. Where a specific provision varies from a general provision, the specific provisions shall apply.

(B) If a section of this Code makes a cross-reference to another section or table in the National Electrical Code (NEC), such cross-referencing shall be interpreted to mean that which is shown in the NEC unless the referenced section or table has been amended or modified in this Code for the particular enforcing agency.

(C) If a section in the National Electrical Code (NEC) makes a cross-reference to another section or table in the NEC, such cross-referencing shall be interpreted to mean that which is shown in the NEC unless the referenced section or table has been amended or modified in this Code for the particular enforcing agency.

(D) When adopted by a State agency, and approved by the Commission, the text of amended provisions contained in this Code shall take precedence over the corresponding provisions of the National Electrical Code (NEC).

89.6.1 [For HCD 1] Local Variances. *For clarification purposes, the applicable Health & Safety Code Section 17958.5 is repeated here and reads as follows;*

Section 17958.5. *“Except as provided in Section 17922.6, in adopting the ordinances or regulations pursuant to Section 17958, a city or county may make such changes or modifications in the requirements contained in the provisions published in the California Building Standards Code and the other regulations adopted pursuant to Section 17922 as it determines, pursuant to the provisions of Section 17958.7, are reasonably necessary because of local climatic, geological, or topographical conditions.”*

“For purposes of this subdivision, a city and county may make reasonably necessary modifications to the requirements, adopted pursuant to Section 17922, contained in the provisions of the code and regulations on the basis of local conditions.”

89.6.2 [For HCD 1] Findings, Filing and Rejections of Local Variances. For clarification purposes, ~~the applicable subSection of Health & Safety Code Section 17958.7~~ is repeated here and reads as follows:

Section 17958.7

(a) “Except as provided in Section 17922.6, the governing body of a city or county, before making any modifications or changes pursuant to Section 17958.5, shall make an express finding that such modifications or changes are reasonably necessary because of local climatic, geological or topographical conditions. Such a finding shall be available as a public record. A copy of those findings, together with the modification or change expressly marked and identified to which each finding refers, shall be filed with the California Building Standards Commission. No modification or change shall become effective or operative for any purpose until the finding and the modification or change have been filed with the California Building Standards Commission.”

(b) “The California Building Standards Commission may reject a modification or change filed by the governing body of a city or county if no finding was submitted.”

89.7 Application.

3.(C) HCD — Department of Housing and Community Development.

3A.(1) HCD 1— Department of Housing and Community Development.

Application - Hotels, motels, lodging houses, apartment houses, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing and factory-built housing, and any other types of dwellings containing sleeping accommodations with common toilet or cooking facilities. Reference ~~89.7.8~~ 89.7(G) of this code, Office of the State Fire ~~Marshall~~, Marshal for fire and panic safety application.

Enforcing Agency—Local Building Department or the Department of Housing and Community Development.

Authority Cited—Health and Safety Code ~~§Sections~~ 17921, 17922 and 19990.

Reference—Health and Safety Code ~~§Sections~~ 17000 through ~~17060~~ 17062.5, 17910 through ~~17990~~ 17995.5, and 19960 through 19997.

(2) HCD 1/AC — Department of Housing and Community Development, Access Compliance.

Application—~~Covered multifamily dwellings, including but not limited to, lodging houses, dormitories, time share dwellings, condominiums, shelters for homeless persons, congregate residences, apartment houses, dwellings, employee housing, factory-built housing, and any other types of dwellings containing sleeping accommodations with common toilet or cooking facilities which are not subject to DSA/AC requirements.~~

~~HCD 1/AC— (Department of Housing and Community Development, Access Compliance). Application— Whenever the identification “HCD 1/AC” appears in this code, it shall mean the following provision by the California Department of Housing and Community Development requires specific accommodations for persons with physical disabilities, as defined in Chapter 11A, of the California Code of Regulations, Title 24, Part 2, also known as the California Building Code. The application of such provisions shall apply only to Group R Occupancies which are newly constructed covered multifamily dwellings as defined in Chapter 11A of the California Building Code, including but not limited to, the following:~~

- ~~1. Apartment Buildings with 3 or more dwelling units.~~
- ~~2. Condominiums with 4 or more dwelling units.~~
- ~~3. Lodging Houses, as defined in Chapter 2 of the California Building Code, when used as a residence with 3 or more guest rooms.~~
- ~~4. Congregate Residences, as defined in Chapter 2 of the California Building Code.~~
- ~~5. Dwellings with 3 or more efficiency units, as defined in Chapter 2 of the California Building Code or Section 17958.1 of the California Health and Safety Code.~~
- ~~6. Shelters for the homeless, not otherwise subject to the disabled access provisions of the Division of the State Architect, Access Compliance (DSA/AC).~~
- ~~7. Dormitories, as defined in Chapter 2 of the California Building Code, with 3 or more guest rooms as defined in Chapter 2 of the California Building Code.~~
- ~~8. Time share dwellings with 3 or more units, except for condominiums covered in item 2 above.~~
- ~~9. Other Group R Occupancies in covered multifamily dwellings which are regulated by the Office of the State Fire Marshal.~~

~~Buildings or portions of buildings of the same or similar occupancies, or mixed occupancies, and buildings accessory thereto, may also be subject to the disabled access provisions adopted by DSA/AC. Buildings subject to the disabled access regulations of the DSA/AC are identified in section 89.7.5 of this Code.~~

~~These multifamily structure disabled access regulations do not apply to the alteration, repair, rehabilitation, or additions to existing Group R Occupancies that were constructed and occupied prior to July 15, 1992. These regulations also generally do not cover public accommodations such as hotels and motels. (See Section 89.7.5 for public accommodations).~~

~~**Note:** For specific requirements and exceptions, see Part 2, Chapters 10 and 11A, as amended, California Building Code; Sections 404.8(C) and 406.3(G) as amended, of this part.~~

~~**Application—** Covered multifamily dwelling units and common use areas as defined in Chapter 11A of the California Building Code including but not limited to lodging houses, dormitories, timeshares, condominiums, shelters for homeless persons, congregate residences, apartment houses, dwellings, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common~~

toilet or cooking facilities which are not transient lodging as defined in Chapter 11A of the California Building Code and subject to the requirements of the Division of the State Architect, Access Compliance (DSA/AC).

Note: Accessibility requirements for persons with ~~disability~~ disabilities are located in Chapter 11A of the California Building Code.

Enforcing Agency—Local Building Department or the Department of Housing and Community Development.

Authority Cited—Health and Safety Code ~~s~~Sections 17921, 17922, 19990 and Government Code Section 12955.1.

Reference—Health and Safety Code ~~s~~Sections 17000 through ~~47060~~ 17062.5, 17910 through ~~47990~~ 17995.5, 19960 through 19997 and Government Code Section 12955.1.

(3) General — State Housing Law; City or County Enforcement.

~~Notwithstanding other provisions of law,~~ Health and Safety Code, Division 13, Parts 1.5, Section 17960 is repeated here for clarity and specificity and reads as follows:

Section 17960. “The building department of every city or county shall enforce within its jurisdiction all the provisions published in the State Building Standards Code, the provisions of this part, and the other rules and regulations promulgated pursuant to the provisions of this part pertaining to the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartment houses, hotels, or dwellings.”

(4) Right of Entry ~~For~~ for Enforcement.

~~Notwithstanding other provisions of law,~~ Health and Safety Code Sections 17050(i), 17970, 17971, 17972 are repeated here for clarity and read as follows:

Section 17050 (i). “The enforcement agency may:

- (1). Enter public or private properties to determine whether there exists any employee housing to which this part applies.
- (2). Enter and inspect all employee housing wheresoever situated, and inspect all accommodations, equipment, or paraphernalia connected therewith.
- (3). Enter and inspect the land adjacent to the employee housing to determine whether the sanitary and other requirements of this part, the building standards published in the California Building Standards Code relating to employee housing, and the other rules and regulations adopted pursuant to this part have been or are being complied with.”

Section 17970. “Any officer, employee, or agent of an enforcement agency may enter and inspect any building or premises whenever necessary to secure compliance with, or prevent a violation of, any provision of this part, the building standards published in the State Building Standards Code, and other rules and

regulations promulgated pursuant to the provisions of this part which the enforcement agency has the power to enforce.”

Section 17971. *“The owner, or authorized agent of any owner, of any building or premises may enter the building or premises whenever necessary to carry out any instructions, or perform any work required to be done pursuant to this part, the building standards published in the State Building Standards Code, and other rules and regulations promulgated pursuant to the provisions of this part.”*

Section 17972. *“No person authorized by this article to enter buildings shall enter any dwelling between the hours of 6 o'clock p.m. of any day and 8 o'clock a.m. of the succeeding day, without the consent of the owner or of the occupants of the dwelling, nor enter any dwelling in the absence of the occupants without a proper written order executed and issued by a court having jurisdiction to issue the order.”*

(5) Unsafe Buildings or Structures.

(a) ~~Authority to Enforce:~~ State Housing Law.

Notwithstanding other provisions of law, for administration, enforcement, actions, proceedings, abatement, violations and penalties in structures subject to State Housing Law, refer to California Health and Safety Code, Division 13, Part 1.5, Sections 17910 through 17995.5 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.

(b) ~~Employee housing~~ Housing.

Notwithstanding other provisions of law, for administration, enforcement, actions, proceedings, violations and penalties applicable to structures and other accommodations subject to the Employee Housing Act, refer to Health and Safety Code, Division 13, Part 1, Sections 17000 through 17062.5 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3.

(6) Violations.

(a) Actions and Proceedings: State Housing Law.

Notwithstanding other provisions of law, Health and Safety Code, Division 13, Part 1.5, Sections 17980 through 17995.5, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, address punishments, penalties and fines for violations of building standards in structures subject to State Housing Law and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.

(b) Actions and Proceedings- ~~(: For Employee Housing)~~.

Notwithstanding other provisions of law, and Health and Safety Code, Division 13, Part 1, Sections 17055 through 17062.5, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, address punishments, penalties and fines for violations of building standards in structures and other accommodations subject to the

Employee Housing Act and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3.

(7) Methods for Approval of Alternates.

(a) Alternate for Materials, Designs, Tests and Methods of Construction: State Housing Law.

Notwithstanding other provisions of law, the method for approval of alternate materials, design, tests and methods of construction are set forth in State Housing Law, Health and Safety Code, Division 13, Part 1.5, Section Sections 17923 or 17951(d), and 17958 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.

(b) Alternate for Materials, Designs, Tests and Methods of Construction. ~~(For :~~ Employee Housing)

Notwithstanding other provisions of law, the method for approval of alternate materials, appliances, installation, device, arrangement, or method of construction are set forth in the Employee Housing Act, Health and Safety Code, Division 13, Part 1, Section 17002 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3.

(8) Fees and Plan Review.

(a) General.

Notwithstanding other provisions of law, reference State Housing Law, Health and Safety Code, Division 13, Part 1.5, Section 17951 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, for local enforcement agency's and the Department of Housing and Community Development's authority to prescribe fees.

(b) Plan Review and Time Limitations.

Notwithstanding other provisions of law, provisions related to plan checking, prohibition of excessive delays and contracting with or employment of private parties to perform plan checking are set forth in ~~State Housing Law~~, Health and Safety Code, Division 13, Part 1.5, Section 17960.1, ~~for employee housing~~ the State Housing Law, and Health and Safety Code, Division 13, Part 1, Sections 17021 and 17055, for the Employee Housing Act.

(c) Retention of Plans.

Note: Reference Health and Safety Code, Division 13, Part 3, Sections 19850 and 19851 for provisions related to permanent retention of plans.

Enforcing Agency—Local Building Department or the Department of Housing and Community Development.

Authority Cited—Health and Safety Code ~~s~~Sections 17921 and 50558.

Reference—Health and Safety Code ~~s~~Sections 17000 through ~~17060~~ 17062.5, 17910 through ~~17990~~ 17995.5, 19850, 19851, 19960 through 19997, and 50558 and 50559.

~~(D)~~(9) HCD-2—Department of Housing and Community Development

Application— ~~Permanent buildings and permanent accessory buildings or structures constructed within in mobilehome parks and special occupancy parks which are under the control and ownership of the park operator.~~

~~(1)(a) Right of Entry For Enforcement. [For HCD-2].~~

~~Notwithstanding other provisions of law, Health and Safety Code, Division 13, Part 2.1, Section 18400 (Mobilehome Parks Act) and Health and Safety Code Division 13, Part 2.3, Section 18866 (Special Occupancy Parks Act) is are repeated below for clarity.~~

Section 18400

- ~~“(a) The department shall enforce this part and the rules and regulations adopted pursuant to this part, except as provided in Section 18300.~~
- ~~(b) The officers or agents of the enforcement agency may do either of the following:~~
- ~~(1) Enter public or private property to determine whether there exists any park to which this part applies.~~
 - ~~(2) Enter and inspect all parks, wherever situated, and inspect all accommodations, equipment, or paraphernalia used in connection therewith, including the right to examine any registers of occupants maintained therein in order to secure the enforcement of this part and the regulations adopted pursuant to this part.”~~

Section 18866

- ~~“(a) The department shall enforce this part and the rules and regulations adopted pursuant to this part, except as provided in Section 18865.~~
- ~~(b) The officers or agents of the enforcement agency may do either of the following:~~
- ~~(1) Enter public or private property to determine whether there exists any park to which this part applies.~~
 - ~~(2) Enter and inspect all parks, wherever situated, and inspect all accommodations, equipment, or paraphernalia used in connection therewith, including the right to examine any registers of occupants maintained therein in order to secure the enforcement of this part and the regulations adopted pursuant to this part.”~~

~~(2)(b) Actions and Proceedings. [For HCD-2].~~

~~Notwithstanding other provisions of law, Health and Safety Code, Division 13, Part 2.1, Sections 18402, 18404, 18423, 18510, and 18700 (Mobilehome Parks Act) and Health and Safety Code, Division 13, Part 2.3, Sections 18866.3, 18866.5, 18869, and 18874 (Special Occupancy Parks Act), and Chapters 2 and 2.2 of Title 25, California Code of Regulations, address punishments, penalties and fines for violations of building standards subject to the Mobilehome Parks Act and the Special Occupancy Parks Act.~~

~~(3)(c) Alternate for Materials, Designs, Tests and Methods of Construction. [For HCD-2].~~

~~Notwithstanding other provisions of law, the method for approval of alternate materials, appliances, installation, device, arrangement, or method of construction are set forth in~~

the Mobilehome Parks Act, Health and Safety Code, Division 13, Part 2.1, Section 18305 and in the Special Occupancy Parks Act, Health and Safety Code Division 13, Part 2.3, Section 18865.6, and Chapters 2 and 2.2. of Title 25, California Code of Regulations, Division 1.

Enforcing Agency—Local building department or the Department of Housing and Community Development.

Authority Cited—Health and Safety Code Sections 18300, 18610 and 18670, 18865, 18872, and 18873.3.

Reference—Health and Safety Code Sections 18200 through ~~18851~~ 18700, and 18860 through 18874.

89.8 Adopting Agency. An “Adopting agency” is a State agency, excluding an agency in the judicial or legislative department of the State Government, which is responsible for the administration of a program and which has promulgated, adopted and submitted to the Commission for its approval proposed building standards for such programs. “Adopting agency” may include boards, commissions, committees, departments, divisions, officers, and other subdivisions of State Government.

89.9. Format. The California Electrical Code, a part of the California Building Standards Code, adopts the National Electrical Code (NEC) by reference on an article by article basis. Amendments or additions to the provisions of the NEC by each adopting agency are adopted on a section by section or subsection by subsection basis, and follow the NEC format using the same titles, bold face headings and general text arrangement, except where the commission has approved a format variance.

89.10. Validity. If any chapter, article, section, subsection, paragraph, sentence, clause, or phrase of this Code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the State as stipulated by statutes, or otherwise inoperative, such decisions shall not affect the validity of the remaining portions of this Code.

89.11. Standard Reference Documents.

(A) The codes, publications, and standards adopted in the Matrix Adoption or referred to in this Code, including other codes, publications, and standards referred to therein, are by title and date of publication, hereby adopted as standard reference documents of this code.

(B) Such reference to other documents shall be made in the form of either an Internal citation within the text or a fine print note (utilizing a smaller typographical alphabet letter size), and shall be a specific edition of the referenced document. Internal citations appearing within the text of a building standard are enforceable, and each citation must be checked for accuracy and application. Fine print notes which appear beneath the applicable text of the building standard or Code section are explanatory of permissive and are not enforceable.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

ARTICLE 90 – Introduction

HCD is proposing the adoption of Article 90 without amendment.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 1: General, Articles 100-110

HCD is proposing the adoption of Articles 100 and 110 of Chapter 1 without amendments.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 2: Wiring and Protection, Articles 200-285

HCD is proposing the adoption of Articles 200, 210, 215, 220, 225, 230, 240, 250, 280, and 285 of Chapter 2 without amendment.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 3: Wiring Methods and Materials, Articles 300-398

HCD is proposing the adoption of Articles 300, 310, 312, 314, 320, 322, 324, 326, 328, 330, 332, 336, 338, 340, 342, 344, 348, 350, 352, 353, 354, 356, 358, 360, 362, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 396, and 398 of Chapter 3 without amendments.

HCD is proposing the adoption of Articles 334 and 394 of Chapter 3 with amendment.

ARTICLE 334. Nonmetallic-Sheathed Cable: Types NM, NMC, and NMS

334.10 Uses Permitted. Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following:

- (1) One- and two-family dwellings.
- (2) Multifamily dwellings permitted to be of Types III, IV, and V construction except as prohibited in 334.12.
- (3) Other structures permitted to be of Types III, IV, and V construction except as prohibited in 334.12. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.

FPN No. 1: Types of building construction and occupancy classifications are defined in NFPA 220-1999, Standard on Types of Building Construction, or the applicable building code, or both.

FPN No. 2: See Annex E for determination of building types [NFPA 220, Table 3-1].

- (4) Cable trays in structures permitted to be Types III, IV, or V where the cables are identified for the use.

FPN: See 310.10 for temperature limitation of conductors.

Note: *[HCD 1 and HCD 2] Types III, IV, and V construction as referenced in Section 334.10 items ~~(2)~~ and (2), (3), and (4) shall be as defined in Title 24, Part 2, California Building Code.*

(A) Type NM. Type NM cable shall be permitted as follows:

- (1) For both exposed and concealed work in normally dry locations except as prohibited in 334.10(3)
- (2) To be installed or fished in air voids in masonry block or tile walls

(B) Type NMC. Type NMC cable shall be permitted as follows:

- (1) For both exposed and concealed work in dry, moist, damp, or corrosive locations, except as prohibited by 334.10(3)
- (2) In outside and inside walls of masonry block or tile
- (3) In a shallow chase in masonry, concrete, or adobe protected against nails or screws by a steel plate at least 1.59 mm ($\frac{1}{16}$ in.) thick and covered with plaster, adobe, or similar finish

(C) Type NMS. Type NMS cable shall be permitted as follows:

- (1) For both exposed and concealed work in normally dry locations except as prohibited by 334.10(3)
- (2) To be installed or fished in air voids in masonry block or tile walls

ARTICLE 394 Concealed Knob-and-Tube Wiring

394.12 Uses Not Permitted. Concealed knob-and-tube wiring shall not be used in the following:

- (1) Commercial garages
- (2) Theaters and similar locations
- (3) Motion picture studios
- (4) Hazardous (classified) locations
- (5) Hollow spaces of walls, ceilings, and attics where such spaces are insulated by loose, rolled, or foamed-in-place insulating material that envelops the conductors.

Exception: *[For HCD 1] This article is not intended to prohibit the installation of insulation where knob-and-tube wiring is present, provided the following are complied with:*

- (1) *The wiring shall be surveyed by an electrical contractor licensed by the State of California. Certification shall be provided by the electrical contractor that the existing wiring is in good condition with no evidence of deterioration or improper over-current protection, and no improper connections or splices. Repairs, alterations, or extensions to the electrical system will require permits and inspections by the authority having jurisdiction for the enforcement of this code.*
- (2) *The certification form shall be filed with the authority having jurisdiction for the enforcement of this code, and a copy furnished to the property owner.*
- (3) *All accessible areas in the building where insulation has been installed around knob-and-tube wiring shall be posted by the insulation contractor with a notice, clearly visible, stating that caution is required when entering these areas. The notice shall be printed in both English and Spanish.*
- (4) *The insulation shall be noncombustible as defined in Title 24, Part 2, California Building Code.*
- (5) *The insulation shall not have any electrical conductive material as part of or supporting the insulation material.*
- (6) *Nothing in this exception will prohibit the authority having jurisdiction for the enforcement of this code from requiring permits and inspections for the installations of thermal insulation.*

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 4: Equipment for General Use, Articles 400-490.

HCD is proposing the adoption of Articles 400, 402, 404, 406, 408, 409, 410, 411, 422, 424, 426, 427, 430, 440, 445, 450, 455, 460, 470, 480, and 490 of Chapter 4 without amendment.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 5: Special Occupancies, Articles 500-590.

HCD is proposing the adoption of Articles 518, 545, and 590 of Chapter 5 without amendment.

HCD is proposing to **not** adopt Articles 500, 501, 502, 503, 504, 505, 506, 510, 511, 513, 514, 515, 516, 517, 520, 525, 530, 540, 547, 550, 551, 552, 553, and 555 of Chapter 5.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 6: Special Equipment, Articles 600-695.

HCD is proposing the adoption of Articles 600, 620, 680, 690, and 692 of Chapter 6 without amendment.

HCD is proposing to **not** adopt Articles 604, 605, 610, 630, 640, 645, 647, 650, 660, 665, 668, 669, 670, 675, 682, 685, and 695 of Chapter 6.

HCD is proposing the adoption of Article 625 as amended by the Office of the State Fire Marshal.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 7: Special Conditions, Articles 700-780.

HCD is proposing the adoption of Articles 700, 702, 705, 720, 725, 727, and 770 of Chapter 7 without amendment.

HCD is proposing to **not** adopt Articles 701, 760, and 780.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 8: Communications Systems, Articles 800-830.

HCD is proposing the adoption of Articles 800, 810, 820, and 830 of Chapter 8 without amendments.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

CHAPTER 9: Tables

HCD is proposing the adoption of the Tables 1, 2, 4, 5, 5A, 8, and 9, 11(A), 11(B), 12(A), and 12(B) in Chapter 9 without amendments.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

ANNEXES

HCD is proposing to **not** adopt Annexes A, B, C, D, E, F and G.

Statutory Authority: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18670, 18865, 18873.3, and 19990; and Government Code Section 12955.1

Statutory Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17990, 18000 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Section 12955.1.

2005 NEC ADOPTION MATRIX

Legend to Matrix:

1. California amendment brought forward without modification: *Code section number will appear in italics.*
2. California amendment brought forward with modification: *Code section will appear in italics and underlined.*
3. New California amendment: Code section will appear underlined.
4. Blank space in columns labeled 2004 CEC or 2007 CEC indicate sections have been removed from model code or relocated in model code

ARTICLE 80 – ADMINISTRATION AND ENFORCEMENT NOT ADOPTED

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Article 80 Not Adopted	Article 80 Not Adopted			

ARTICLE 89 CA – ADMINISTRATION ADOPT ONLY THE SECTIONS LISTED BELOW

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
<i>Article 89 CA Administration</i>	<i>Article 89 CA Administration</i>			
89 CA	89 CA	X		X
89.1 CA	89.1 CA	X		X
89.2 CA	89.2 CA	X		X
89.3 CA with exception	89.3 CA with exception	X		
89.4 CA	89.4 CA	X		X
89.5 CA	89.5 CA	X		X
89.6 CA	89.6 CA	X		X
89.6.1 CA	89.6.1 CA	X		
89.6.2 CA	89.6.2 CA	X		
89.7 CA	89.7 CA	X	X	X
89.7.3 CA	89.7(C) CA	X		
89.7.3A CA	89.7(C)(1) CA	X		
89.7.3(2) CA	89.7(C)(2) CA		X	
89.7.3(3) CA	89.7(C)(3) CA	X		
89.7.3(4) CA	89.7(C)(4) CA	X		
89.7.3(5) CA	89.7(C)(5) CA	X		
89.7.3(5)(a) CA	89.7(C)(5)(a) CA	X		
89.7.3(5)(b) CA	89.7(C)(5)(b) CA	X		
89.7.3(6) CA	89.7(C)(6) CA	X		

89.7.3(6)(a) CA	89.7(C)(6)(a) CA	X		
89.7.3(6)(b) CA	89.7(C)(6)(b) CA	X		
89.7.3(7) CA	89.7(C)(7) CA	X		
89.7.3(7)(a) CA	89.7(C)(7)(a) CA	X		
89.7.3(7)(b) CA	89.7(C)(7)(b) CA	X		
89.7.3(8) CA	89.7(C)(8) CA	X		
89.7.3(8)(a) CA	89.7(C)(8)(a) CA	X		
89.7.3(8)(b) CA	89.7(C)(8)(b) CA	X		
89.7.3(8)(c) CA	89.7(C)(8)(c) CA	X		
89.7.4 CA	89.7(C)(9) CA			X
89.7.4(1) CA	89.7(C)(9)(a) CA			X
89.7.4(2) CA	89.7(C)(9)(b) CA			X
89.7.4(3) CA	89.7(C)(9)(c) CA			X
89.8 CA	89.8 CA	X		X
89.9 CA	89.9 CA	X		X
89.10 CA	89.10 CA	X		X
89.11 CA	89.11 CA	X		X

ARTICLE 90 – INTRODUCTION
ADOPT ENTIRE ARTICLE WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Article 90 Introduction	Article 90 Introduction			
90	90	X		X

CHAPTER 1 – GENERAL
ADOPT ALL ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 1. General	Chapter 1. General			
Articles 100 – 110	Articles 100 – 110			
Article 100	Article 100	X		X
Article 110	Article 110	X		X

CHAPTER 2 – WIRING AND PROTECTION
ADOPT ALL ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 2. Wiring and Protection	Chapter 2. Wiring and Protection			
Articles 200 -285	Articles 200 -285			
200	200	X		X
210	210	X		X
215	215	X		X
220	220	X		X
225	225	X		X
230	230	X		X
240	240	X		X
250	250	X		X
280	280	X		X
285	285	X		X

CHAPTER 3 – WIRING METHODS AND MATERIALS
ADOPT ARTICLES AS LISTED BELOW WITH AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 3. Wiring Methods and Materials	Chapter 3. Wiring Methods and Materials			
Articles 300 – 398	Articles 300 – 398			
300	300	X		X
310	310	X		X
312	312	X		X
314	314	X		X
320	320	X		X
322	322	X		X
324	324	X		X
326	326	X		X
328	328	X		X
330	330	X		X
332	332	X		X
334 with amendment	334 with amendment	X		X
<u>334.10 CA</u>	<u>334.10 CA</u>	X		X
336	336	X		X
338	338	X		X

340	340	X		X
342	342	X		X
344	344	X		X
348	348	X		X
350	350	X		X
352	352	X		X
	353	X		X
354	354	X		X
356	356	X		X
358	358	X		X
360	360	X		X
362	362	X		X
366	366	X		X
368	368	X		X
370	370	X		X
372	372	X		X
374	374	X		X
376	376	X		X
378	378	X		X
380	380	X		X
382	382	X		X
384	384	X		X
386	386	X		X
388	388	X		X
390	390	X		X
392	392	X		X
394	394	X As amended		X Without amendment
<u>394.12 CA</u>	<u>394.12 CA</u>	X		
396	396	X		X
398	398	X		X

CHAPTER 4 – EQUIPMENT FOR GENERAL USE
ADOPT ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 4. Equipment for General Use	Chapter 4. Equipment for General Use			
Articles 400 – 490	Articles 400 – 490			
400	400	X		X
402	402	X		X
404	404	X		X
406	406	X		X
408	408	X		X
409	409	X		X
410	410	X		X
411	411	X		X
422	422	X		X
424	424	X		X
426	426	X		X
427	427	X		X
430	430	X		X
440	440	X		X
445	445	X		X
450	450	X		X
455	455	X		X
460	460	X		X
470	470	X		X
480	480	X		X
490	490	X		X

CHAPTER 5 – SPECIAL OCCUPANCIES
ADOPT ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 5. Special Occupancies	Chapter 5. Special Occupancies			
Articles 500 – 555	Articles 500 – 590			
500	500			
501	501			
502	502			
503	503			
504	504			
505	505			
	506			
510	510			
511	511			
513	513			
514	514			
515	515			
516	516			
517	517			
518	518			X
520	520			
525	525			
530	530			
540	540			
545	545	X		X
547	547			
550	550			
551	551			
552	552			
553	553			
555	555			
527	590	X		X

CHAPTER 6 – SPECIAL EQUIPMENT
ADOPT ONLY THOSE ARTICLES LISTED BELOW WITH AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 6. Special Equipment	Chapter 6. Special Equipment			
Article 600 – 695	Article 600 – 695			
600	600	X		X
604	604			
605	605			
610	610			
620	620	X		X
625 as amended by SFM	625 as amended by SFM	X		X
625.29(D)	625.29(D)			
625.29(E) CA	625.29(E) CA	♦		♦
630	630			
640	640			
645	645			
647	647			
650	650			
660	660			
665	665			
668	668			
669	669			
670	670			
675	675			
680	680	X		X
	682			
685	685			
690	690	X		X
692	692	X		X
695	695			

CHAPTER 7 – SPECIAL CONDITIONS
ADOPT ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 7. Special Conditions	Chapter 7. Special Conditions			
Articles 700 – 780	Articles 700 – 780			
700	700	X		X
701	701	♦		♦
702	702	X		X
705	705	X		X
720	720	X		X
725	725	X		X
727	727	X		X
760	760	♦		♦
770	770	X		X
780	780			

CHAPTER 8 – COMMUNICATIONS SYSTEMS
ADOPT ARTICLES AS LISTED BELOW WITHOUT AMENDMENT

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 8. Communication Systems	Chapter 8. Communication Systems			
Articles 800 – 830	Articles 800 – 830			
800	800	X		X
810	810	X		X
820	820	X		X
830	830	X		X

CHAPTER 9 – TABLES
ADOPT ALL TABLES AS LISTED BELOW

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Chapter 9. Tables	Chapter 9. Tables			
Table 1	Table 1	X		X
Table 2	Table 2	X		X
Table 4	Table 4	X		X
Table 5	Table 5	X		X
Table 5A	Table 5A	X		X
Table 8	Table 8	X		X
Table 9	Table 9	X		X
Table 11(A)	Table 11(A)	X		X
Table 11(B)	Table 11(B)	X		X
Table 12(A)	Table 12(A)	X		X
Table 12(B)	Table 12(B)	X		X

ANNEXES
NO ANNEXES ADOPTED

2004 CEC Code Section	2007 CEC Code Section	HCD 1 Adoption	HCD 1/AC Adoption	HCD 2 Adoption
Annexes	Annexes			
Annex A	Annex A			
Annex B	Annex B			
Annex C	Annex C			
Annex D	Annex D			
Annex E	Annex E			
Annex F	Annex F			
Annex G	Annex G			